

ABSTRACT OF THE DISCLOSURE

A network management system is provided which is capable of reducing a load of processing to be performed by each of nodes when
5 information about a path on a network in each of nodes is acquired.

The network management system includes a first edge node serving as an entrance unit to a communication network, second edge node serving as an exit unit, relay node mounted between both the edge nodes and path
10 information acquiring unit to send out a tracing signal used to trace a transfer signal along a transfer route to the first edge node and to obtain information about a path for the transfer signal. Each node is made up of a path
15 information holding unit, tracing signal residing unit, and tracing signal sending unit. The path information acquiring unit acquires the information about the path on a transfer route from one node out of a plurality of nodes.